



Office of Institutional Effectiveness and Accreditation
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General Education Outcome 2: An LSU Eunice graduate will use processes, procedures, data, or evidence to solve problems and make effective decisions (results are from AY 2017-2018 unless noted).

General Education Mathematics

Objective: Upon completion of math core requirements, transfer and associate degree students will demonstrate competency in mathematics as required by their curriculum. This objective is assessed by the student learning outcomes (SLOs) in Applied College Algebra and College Algebra (MATH 1015 and 1021), Plane Trigonometry (MATH 1022), Statistics (MATH 1425), and Pre-Calculus (MATH 1023).

SLOs for MATH 1015 and MATH 1021: Upon successful completion of Applied College Algebra or College Algebra, the student will

- A. Solve equations and inequalities algebraically and graphically.
- B. Evaluate and interpret function values.
- C. Graph functions.

Assessment	Methodology	Expected Level of Achievement	Number of Students	Most Current SLO Data	Result	Improvement																				
MATH 1015 And MATH 1021 (Applied College Algebra & College Algebra)	SLOs directly assessed for all students taking the final exam	ELA = 70%: it is the lowest transferrable average grade	325 students in 20 sections for MATH 1015 294 students in 23 sections for 1021	<table border="1"> <thead> <tr> <th></th> <th>Overall</th> <th>1015</th> <th>1021</th> </tr> </thead> <tbody> <tr> <td>Overall</td> <td>76%</td> <td>76%</td> <td>77%</td> </tr> <tr> <td>SLO A</td> <td>73%</td> <td>75%</td> <td>71%</td> </tr> <tr> <td>SLO B</td> <td>79%</td> <td>76%</td> <td>82%</td> </tr> <tr> <td>SLO C</td> <td>77%</td> <td>78%</td> <td>76%</td> </tr> </tbody> </table>		Overall	1015	1021	Overall	76%	76%	77%	SLO A	73%	75%	71%	SLO B	79%	76%	82%	SLO C	77%	78%	76%	Observed score of 76% > the ELA of 70% Objective met	No methodological changes planned. Faculty plan to revise certain questions based on low success on item analysis.
	Overall	1015	1021																							
Overall	76%	76%	77%																							
SLO A	73%	75%	71%																							
SLO B	79%	76%	82%																							
SLO C	77%	78%	76%																							

SLO results for MATH 1015 only AY 2017-2018 as Percentages.

MATH 1015 SLO Description	Overall	LSUE	Dual Credit	LSUA	LSU Lab	Online	Accelerated	Modular
Overall	76	79				75	78	72
A. Solve Equations and Inequalities Algebraically and Graphically	75	77				68	70	75
B. Evaluate and Interpret Function Values	76	82	none	none	none	77	80	68
C. Graph Functions	78	79				82	86	74
Total number of sections	20	10				2	2	6
Total number of students tested	325	178				25	8	114

NOTE: One accelerated section was during the fall intersession.

SLO results for MATH 1021 (College Algebra) only AY 2017-2018 in percentages.

MATH 1021 SLO Description	Overall	LSUE	Dual Credit	LSUA	LSU Lab	Online	Accelerated	Modular
Overall	77	76	82	68		75		
A. Solve Equations and Inequalities Algebraically and Graphically	71	69	74	65	none	83	none	none
B. Evaluate and Interpret Function Values	82	83	87	74		73		
C. Graph Functions	76	74	85	66		71		
Total number of sections	23	13	5	3		2		
Total number of students tested	294	168	71	26		29		

SLOs for MATH 1022: Upon successful completion of Plane Trigonometry, the student will

- A. Evaluate trigonometric functions and manipulate their graphs.
- B. Solve trigonometric equations and applications.

Assessment	Methodology	Expected Level of Achievement	Number of Students	Most Current SLO Data	Result	Improvement
MATH 1022 (Plane Trigonometry)	SLOs directly assessed for all students taking the final exam	ELA = 70%: it is the lowest transferrable average grade	160 students in 8 sections	Overall = 75% SLO A = 78% SLO B = 71%	Since the observed score of 75% > the ELA of 70% Objective met	Two problems with low success rate (#20 and 21) involves material not emphasized. Faculty will attempt to spend some extra time.

MATH 1022 SLO Results AY 2017-2018 by Site as a Percentage							
MATH 1022 SLO Description	Overall	LSUE	Dual Credit	LSUA	LSU Lab	Online	Accelerated
Overall	75	72	77				
A. Evaluate trig functions and manipulate their graphs	78	75	80	none	none	none	none
B. Solve trig equations and applications	71	68	74				
Total number of students tested	160	71	89				
Total number of sections for AY	8	4	4				

SLOs for MATH 1425: Upon the successful completion of Statistics, the student will:

- A. Organize and summarize data using descriptive techniques that are both mathematical and pictorial.
- B. Use the normal and t distributions to construct and interpret confidence interval estimates of population parameters.

Assessment	Methodology	Expected Level of Achievement	Number of Students	Most Current SLO Data	Result	Improvement
MATH 1425 (Elementary Statistics)	SLOs directly assessed for all students taking the final exam	ELA = 70%: it is the lowest transferrable average grade	335 students in 12 sections	Overall = 70% SLO A = 76% SLO B = 64%	Since the observed score of 70% = the ELA of 70% Objective met	Faculty decided to create test and final exam reviews to assist students.

MATH 1425 SLO Results AY 2017-2018 as a Percentage.

MATH 1425 SLO Description	Overall	LSUE	Dual Credit	LSUA	LSU Lab	Online	Accelerated
Overall	70	74				67	49
A. Organize and summarize data using descriptive techniques that are both mathematical and pictorial	76	79	none	none	none	73	57
B. Use the normal and t distributions to construct and interpret confidence interval estimates of population parameters	64	68				58	38
Total number of students tested	335	256				41	38
Total number of sections for AY	12	8				2	2

SLOs for MATH 1023: Upon the successful completion of the Pre-Calculus course, the student will:

- A. Solve equations and inequalities algebraically and graphically.
- B. Evaluate and interpret function values.
- C. Graph algebraic functions.
- D. Evaluate trigonometric functions and manipulate their graphs.
- E. Solve trigonometric equations and applications.

Assessment	Methodology	Expected Level of Achievement	Number of Students	Most Current SLO Data	Result	Improvement
MATH 1023 (Pre-Calculus)	SLOs directly assessed for all students taking the final exam	ELA = 70%: it is the lowest transferrable average grade	5 students in one section (face-to-face at LSUE only)	Overall = 77% SLO A = 77% SLO B = 80% SLO C = 83% SLO D = 83% SLO E = 60%	Since the observed score of 77% > the ELA of 70% Objective met	A study guide was created to assist students especially related to SLO E.

MATH 1023 SLO Results AY 2017-2018 by Site as Percentages

MATH 1023 SLO Description	Overall	LSUE	Dual Credit	LSUA	LSU Lab	Online	Accelerated
Overall	77	77					
A. Solve equations and inequalities both algebraically and graphically	77	77					
B. Evaluate and Interpret Function Values	80	80					
C. Graph functions	83	83	none	none	none	none	none
D. Evaluate trig functions and manipulate their graphs	83	83					
E. Solve trig equations and applications	60	60					
Total number of students tested	5	5					
Total number of sections for AY	1	1					